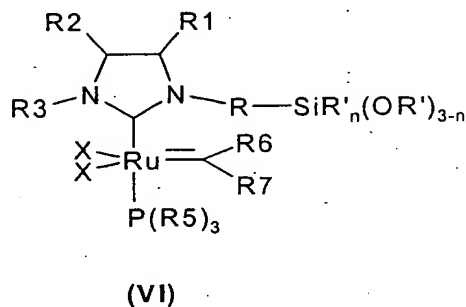
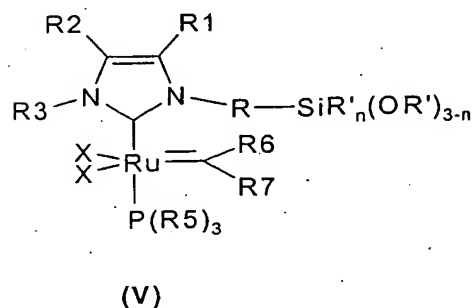
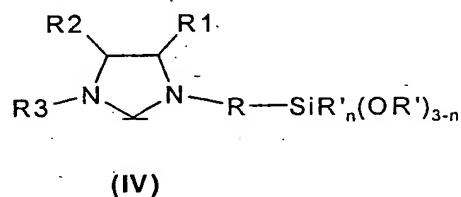
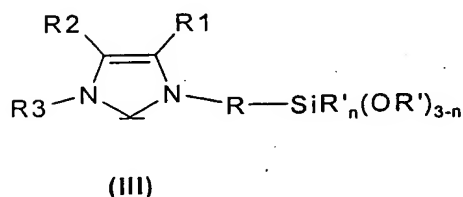
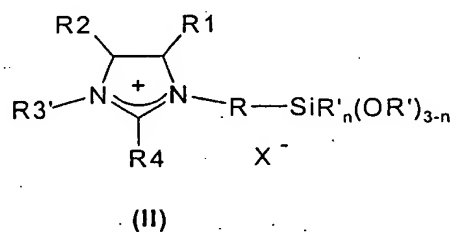
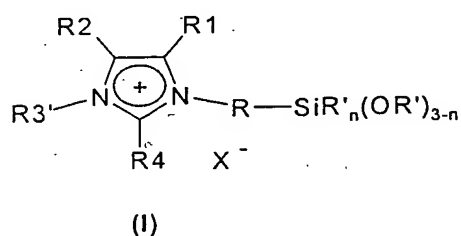


ABSTRACT

The invention relates to the process for the preparation of N,N-disubstituted imidazolium salts, N-heterocyclic carbene ligands and ruthenium catalysts containing N-heterocyclic carbene ligands, i.e. compounds of the general formulae (I) and (II), compounds of the general formulae (III) and (IV) and compounds of the general formulae (V) and (VI), immobilised on inorganic oxide supports.



The invention furthermore relates to the use of the immobilised compounds of the general formulae (I – IV) in organic, organometallic or transition metal-catalysed synthesis and to the use of the compounds of the general formulae (V) and (VI) as catalysts in organic and organometallic synthesis, in particular for C-C coupling reactions, such as olefin metathesis.